

CLAIM SET AS AMENDED

1. (Cancelled).

2. (Previously Presented) An isolated nucleic acid
comprising

OK
to enter
R.K.
3/1/05 (a) a nucleotide sequence encoding an amino acid sequence
represented by SEQ ID NO: 2 or 4, wherein said amino acid sequence
having nicotianamine aminotransferase activity, or

(b) a nucleotide sequence which hybridizes to the nucleotide
sequence of SEQ ID NO: 1 or SEQ ID NO: 3 when incubated in a
solution of 5 x Denhart's solution, 5x SSPE and 0.1% SDS at 65°C
for 12 hours, washed once with 6x SSP at 65°C for 10 minutes and
washed twice with 2x SSP, 0.1% SDS at 42°C for 10 minutes, and
which comprises a DNA sequence that is amplifiable by polymerase
chain reaction with the primers represented by SEQ ID NO: 5 and 6
repeating a cycle of incubation at 94°C for 40 seconds, followed by
40°C for 1 minute, and followed by 72°C for 2 minutes 25 times, and
then repeating a cycle of incubation at 94°C for 40 seconds,
followed by 45°C for 1 minute, and followed by 72°C for 2 minutes
25 times, wherein the coding sequence of said nucleotide sequence
encodes an amino acid sequence having nicotianamine
aminotransferase activity.